AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1	1. (Currently amended) A method for allocating computer system
2	resources between concurrently executing workloads, comprising:
3	establishing a first resource pool that specifies requirements for each of a
4	plurality of different computer system resources, wherein the plurality of different
5	computer system resources are components of a single computer system, and
6	wherein establishing the first resource pool involves establishing minimum and
7	maximum requirements for a given resource;
8	allocating the plurality of different computer system resources to one or
9	more resource pools, including the first resource pool, to create a resource
10	allocation, wherein requirements of the first resource pool are satisfied, wherein
11	prior to allocating the plurality of different computer system resources, the method
12	further comprises:
13	verifying that collective requirements of the one or more
14	resource pools can be satisfied, and
15	if the collective requirements cannot be satisfied, signaling
16	an error condition; and
17	wherein resources allocated to the first resource pool can change over
18	time; and
19	binding a first process to the first resource pool, so that the first process
20	has access to the plurality of different computer system resources allocated to the
21	first resource pool.

1	2. (Original) The method of claim 1, wherein allocating the plurality of
2	different computer system resources to one or more resource pools involves:
3	partitioning each of the plurality of different computer system resources
4	into one or more partitions, wherein a first partition is associated with a first
5	resource and a second partition is associated with a second resource;
6	allocating the first partition to a single resource pool, so that only
7	processes associated with the single resource pool can access the first partition;
8	and
9	allocating the second partition to multiple resource pools so that processes
10	associated with the multiple resource pools can share the second partition.
1	3 (Canceled).
1	4. (Original) The method of claim 1, wherein establishing the first
2	resource pool involves selecting a file containing a representation of the first
3	resource pool from a plurality of possible files.
1	5. (Original) The method of claim 1, further comprising storing a
2	representation of the resource allocation to non-volatile storage so that the
3	resource allocation can be reused after a machine failure.
1	6. (Original) The method of claim 5, wherein storing the representation of
2	the resource allocation involves storing a representation of each of the one or
3	more resource pools along with associated resources.
1	7. (Original) The method of claim 5, wherein storing the representation of
2	the resource allocation involves storing an Extensible Markup Language (XML)
3	representation of the resource allocation.

1	8. (Original) The method of claim 1,
2	wherein the first resource pool is associated with a first project; and
3	wherein the first process is one of a plurality of processes associated with
4	the first project.
1	9 (Canceled).
1	10. (Original) The method of claim 1, further comprising dynamically
2	adjusting the resource allocation during system execution.
1	11. (Original) The method of claim 1, wherein the plurality of different
2	computer system resources can include:
3	central processing units;
4	semiconductor memory;
5	swap space; and
6	networking resources.
1	12. (Currently amended) A computer-readable storage medium storing
2	instructions that when executed by a computer cause the computer to perform a
3	method for allocating computer system resources between concurrently executing
4	workloads, the method comprising:
5	establishing a first resource pool that specifies requirements for each of a
6	plurality of different computer system resources, wherein the plurality of different
7	computer system resources are components of a single computer system, and
8	wherein establishing the first resource pool involves establishing minimum and
9	maximum requirements for a given resource;
10	allocating the plurality of different computer system resources to one or
11	more resource pools, including the first resource pool, to create a resource

12	allocation, wherein requirements of the first resource pool are satisfied, wherein
13	prior to allocating the plurality of different computer system resources, the method
14	<u>further comprises:</u>
15	verifying that collective requirements of the one or more
16	resource pools can be satisfied, and
17	if the collective requirements cannot be satisfied, signaling
18	an error condition; and
19	wherein resources allocated to the first resource pool can change over
20	time; and
21	binding a first process to the first resource pool, so that the first process
22	has access to the plurality of different computer system resources allocated to the
23	first resource pool.
1	13. (Original) The computer-readable storage medium of claim 12,
2	wherein allocating the plurality of different computer system resources to one or
3	more resource pools involves:
4	partitioning each of the plurality of different computer system resources
5	into one or more partitions, wherein a first partition is associated with a first
6	resource and a second partition is associated with a second resource;
7	allocating the first partition to a single resource pool, so that only
8	processes associated with the single resource pool can access the first partition;
9	and
10	allocating the second partition to multiple resource pools so that processes
11	associated with the multiple resource pools can share the second partition.
1	14 (Canceled).

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1	15. (Original) The computer-readable storage medium of claim 12,
2	wherein establishing the first resource pool involves selecting a file containing a
3	representation of the first resource pool from a plurality of possible files.
1	16. (Original) The computer-readable storage medium of claim 12,
2	wherein the method further comprises storing a representation of the resource
3	allocation to non-volatile storage so that the resource allocation can be reused
4	after a machine failure.
1	17. (Original) The computer-readable storage medium of claim 16,
2	wherein storing the representation of the resource allocation involves storing a
3	representation of each of the one or more resource pools along with associated
4	resources.
1	18. (Original) The computer-readable storage medium of claim 16,
2	wherein storing the representation of the resource allocation involves storing an
3	Extensible Markup Language (XML) representation of the resource allocation.
1	19. (Original) The computer-readable storage medium of claim 12,
2	wherein the first resource pool is associated with a first project; and
3	wherein the first process is one of a plurality of processes associated with
4	the first project.

1 20 (Canceled).

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21. (Original) The computer-readable storage medium of claim 12, wherein the method further comprises dynamically adjusting the resource allocation during system execution.

1	22. (Original) The computer-readable storage medium of claim 12,
2	wherein the plurality of different computer system resources can include:
3	central processing units;
4	semiconductor memory;
5	swap space; and
6	networking resources.
1	23. (Currently amended) An apparatus that allocates computer system
2	resources between concurrently executing workloads, comprising:
3	an establishment mechanism that is configured to establish a first resource
4	pool that specifies requirements for each of a plurality of different computer
5	system resources, wherein the plurality of different computer system resources are
6	components of a single computer system, and wherein the establishment
7	mechanism is configured to establish minimum and maximum requirements for a
8	given resource;
9	an allocation mechanism that is configured to allocate the plurality of
10	different computer system resources to one or more resource pools, including the
11	first resource pool, to create a resource allocation, wherein requirements of the
12	first resource pool are satisfied, and wherein resources allocated to the first
13	resource pool can change over time;
14	a verification mechanism that is configured to verify that collective
15	requirements of the one or more resource pools can be satisfied;
16	wherein if the collective requirements cannot be satisfied, the verification
17	mechanism is configured to signal an error condition; and
18	a binding mechanism that is configured to bind a first process to the first
19	resource pool, so that the first process has access to the plurality of different
20	computer system resources allocated to the first resource pool.

1	24. (Original) The apparatus of claim 23, wherein the allocation
2	mechanism is configured to:
3	partition each of the plurality of different computer system resources into
4	one or more partitions, wherein a first partition is associated with a first resource
5	and a second partition is associated with a second resource;
6	allocate the first partition to a single resource pool, so that only processes
7	associated with the single resource pool can access the first partition; and to
8	allocate the second partition to multiple resource pools so that processes
9	associated with the multiple resource pools can share the second partition.
1	25 (Canceled).
1	26. (Original) The apparatus of claim 23, wherein the establishment
2	mechanism is configured to select a file containing a representation of the first
3	resource pool from a plurality of possible files.
1	27. (Original) The apparatus of claim 23, further comprising an archiving
2	mechanism that is configured to store a representation of the resource allocation
3	non-volatile storage so that the resource allocation can be reused after a machine
4	failure.
1	28. (Original) The apparatus of claim 27, wherein the archiving
2	mechanism is configured to store a representation of each of the one or more
3	resource pools along with associated resources.
1	29. (Original) The apparatus of claim 27, wherein the archiving
2	mechanism is configured to store an Extensible Markup Language (XML)

representation of the resource allocation.

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1 30. (Original) The apparatus of claim 23, wherein the first resource pool is associated with a first project; and 2 wherein the first process is one of a plurality of processes associated with 3 4 the first project. 1 31 (Canceled). 1 32. (Original) The apparatus of claim 23, further comprising an adjustment mechanism that is configured to dynamically adjust the resource allocation during 2 3 system execution. 33. (Original) The apparatus of claim 23, wherein the plurality of different 1 2 computer system resources can include: 3 central processing units; semiconductor memory; 4 swap space; and 5

networking resources.

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